



**State of Louisiana
Coastal Protection and Restoration Authority**

2017 Annual Inspection Report

for

**Bayou Dupont Marsh and Ridge
Creation (BA-48)**

State Project Number BA-48
Priority Project List 17

March 22, 2018
Jefferson Parish &
Plaquemines Parish

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Table of Contents

I. Introduction.....	1
II. Project Description and History.....	1
III. Inspection Purpose and Procedures.....	1
IV. Inspection Results	2
V. Conclusions.....	2
VI. Recommendations.....	2
Immediate Repairs	2
Programmed Maintenance	2

Appendices

- Appendix A Project Features Map
- Appendix B Photographs
- Appendix C Three Year Budget Projections
- Appendix D Field Inspection Form



I. Introduction

The Bayou Dupont Marsh and Ridge Creation Project (BA-48) was designed to reconstruct a rapidly eroding and subsiding portion of the Barataria Landbridge, which in past decades has been converted to mostly open water. The poor condition of the marsh is likely due to a combination of subsidence, dredging of oil and gas canals, and lack of freshwater input. Therefore, the objectives of the project were to create sustainable marsh and restored ridge along the southern shore of Bayou Dupont south of body of water known as the Pen. This project utilized CWPPRA funds.

The marsh and ridge creation areas of the Bayou Dupont Marsh and Ridge Creation Project (BA-48) are located in the Barataria Basin approximately 5.5 miles southeast of Lafitte, in Jefferson Parish, Louisiana. The general project area is located about 15 miles south of New Orleans, within the Barataria Basin in Plaquemines and Jefferson Parishes in south Louisiana; this area is colloquially referred to as the Barataria Landbridge. (Appendix A)

II. Project Description and History

The Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) Task Force designated BA-48 as part of the 17th Priority Project List in 2008. The lead federal sponsor for the project was the National Marine Fisheries Service (NMFS), with funding approved through CWPPRA. The local sponsor for the project was the Louisiana Coastal Protection and Restoration Authority (at the time the Louisiana Office of Coastal Protection and Restoration).

The Bayou Dupont Marsh and Ridge Creation Project (BA-48) includes approximately 409 acres of marsh fill hydraulically dredged and transported from the Mississippi River and 10,798 linear feet of ridge habitat.

Project construction began on April 8, 2014, and was completed on October 23, 2015. Project life is estimated to be 20 years. Annual project inspections are planned.

An agreement was entered into by the CPRA and BTNEP for BTNEP to collect and grow woody stemmed vegetation species for the purpose of the CPRA to have planted along the Ridge around year three of the project life.

III. Inspection Purpose and Procedures

The purpose of the annual inspection of the Bayou Dupont Marsh and Ridge Creation Project (BA-48) is to evaluate the constructed project features to identify any deficiencies and prepare a report detailing the condition of project features and recommended corrective actions needed. The inspection procedure consists of a site visit by land or water as appropriate with a visual inspection of the project features. Should it be



determined that corrective actions are needed, CPRA shall provide, in the report, a detailed cost estimate for engineering, design, supervision, inspection, and construction contingencies, and an assessment of the urgency of such repairs (O&M Plan). The annual inspection report also contains a summary of maintenance projects and an estimated projected budget for the upcoming three (3) years for operation, maintenance and rehabilitation. The three (3) year projected operation and maintenance budget is shown in Appendix C.

An inspection of the Bayou Dupont Marsh and Ridge Creation Project (BA-48) was conducted on November 9, 2017 by Barry Richard and Danielle Richardi of CPRA and Donna Rogers of NOAA Fisheries. There was a light wind and cloudy skies during the inspection. Photographs of that inspection are included in Appendix B of this report.

IV. Inspection Results

Marsh Restoration Areas

The containment dikes and fill areas appeared to be holding up well. The marsh fill areas have vegetated very nicely since construction was completed.

Ridge Restoration Area

The ridge restoration area appeared to be holding up well. A ridge vegetative planting is planned for late 2018.

V. Conclusions

The Bayou Dupont Marsh and Ridge Creation Project (BA-48) is performing as intended.

VI. Recommendations

Immediate Repairs

- No immediate repairs are necessary at this time.

Programmed Maintenance

- Continue to monitor the condition of the ridge and fill area.

Appendix A

Project Features Map



Legend

----- Sediment Pipeline

BA-164

BA-48 Marsh Fill

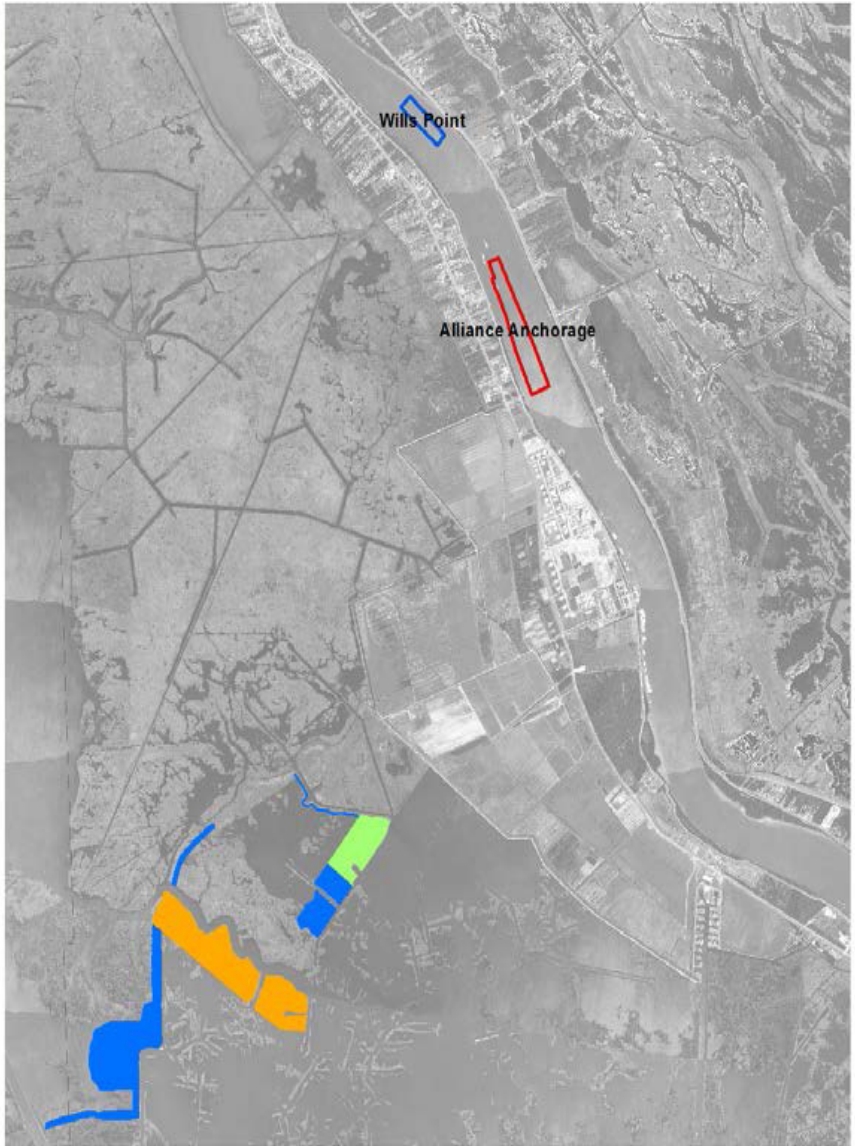
BA-43 (EB) Marsh Fill

Wills Point

Alliance Anchorage



Miles
0 0.5 1 2 3 4



Appendix B

Photographs



Photo # 1 – Marsh Creation Area



Photo # 2 – Marsh Creation Area



Photo # 3 – Ridge Creation



Photo # 4 – Ridge Creation

Appendix C

Three Year Budget Projection

Bayou Dupont Marsh and Ridge Creation (BA-48)

Federal Sponsor: NMFS
Construction Completed : 2015
PPL 17

Current Approved O&M Budget	Year 1 2016	Year 2 2017	Year 3 2018	Year 4 2019	Year 5 2020	Year 6 2021	Year 7 2022	Year 8 2023	Year 9 2024	Year 10 2025	Year 11 2026	Year 12 2027	Year 13 2028	Year 14 2029	Year 15 2030	Year 16 2031	Year 17 2032	Year 18 2033	Year 19 2034	Year 20 2035	Project Life Budget	Currently Funded
State O&M	\$46,200	\$6,200	\$288,508	\$6,200	\$137,770	\$6,200	\$6,200	\$6,200	\$6,200	\$46,200	\$6,200	\$6,200	\$6,200	\$137,770	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$749,448	\$484,878
Corps Admin	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$1,225	\$2,245	\$25,520	\$6,125
Federal S&A	\$1,331	\$0	\$5,021	\$0	\$2,565	\$0	\$0	\$0	\$0	\$1,331	\$0	\$0	\$0	\$2,565	\$0	\$0	\$0	\$0	\$0	\$0	\$12,813	\$8,917
Total																					\$787,781	\$499,920

Projected O&M Expenditures																					Remaining Project Life	Current Budget
Maintenance Inspection	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$111,600	\$18,600
Construction:																					\$0	\$0
Vegetative Plantings/Tallow Control			\$123,436		\$59,036									\$59,036							\$241,508	\$182,472
Dike Gapping			\$31,250																		\$31,250	\$31,250
Subtotal with 25% Contingency			\$193,358		\$73,795									\$73,795							\$340,948	\$267,153
Construction Inspection			\$8,100		\$8,175									\$8,175							\$24,450	\$16,275
Surveys	\$40,000		\$40,000		\$40,000					\$40,000				\$40,000							\$160,000	\$80,000
State S&A			\$9,600		\$9,600									\$9,600							\$28,800	\$19,200
Federal S&A	\$1,331		\$5,021		\$2,565					\$1,331				\$2,565							\$11,482	\$7,586
Total	\$47,531	\$6,200	\$262,279	\$6,200	\$140,335	\$6,200	\$6,200	\$6,200	\$6,200	\$47,531	\$6,200	\$6,200	\$6,200	\$140,335	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$6,200	\$708,530	\$440,064

O&M Expenditures from COE Report	\$3,855	Current O&M Budget less COE Admin	\$493,795	Current Project Life Budget less COE Admin	\$762,261
State O&M Expenditures not submitted for in-kind credit	\$0	Estimated O&M Expenditures to-date	\$3,855	Total Projected Project Life Budget	\$712,384
Federal Sponsor MIPRs (if applicable)	\$0	Remaining Available O&M Budget	\$489,940	Project Life Budget Surplus (Shortfall)	\$49,876
Total Estimated O&M Expenditures (as of Nov 2016)	\$3,855	Projected 3-Year Budget Expenditures	\$111,600		
		3-Year Budget Surplus (Shortfall Request)	\$378,340		

Appendix D

Field Inspection Form

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: **BA-0048 Bayou Dupont Marsh and Ridge Restoration**

Date of Inspection: 11/09/2017

Time: 10:30 am

Structure No. N/A

Inspector(s): Richard and Richardi (CPRA), Rogers (NOAA)

Structure Description: N/A

Water Level Inside: N/A Outside: N/A

Type of Inspection: Annual

Weather Conditions: Cloudy, Windy

Item	Condition	Physical Damage	Corrosion	Photo #	Observations and Remarks
Marsh Restoration Area	Good	None	N/A	1,2	Heavily Vegetated
Ridge Restoration Area	Good	None	N/A	3,4	Heavily Vegetated

Notes: No signs of vandalism in the project area.